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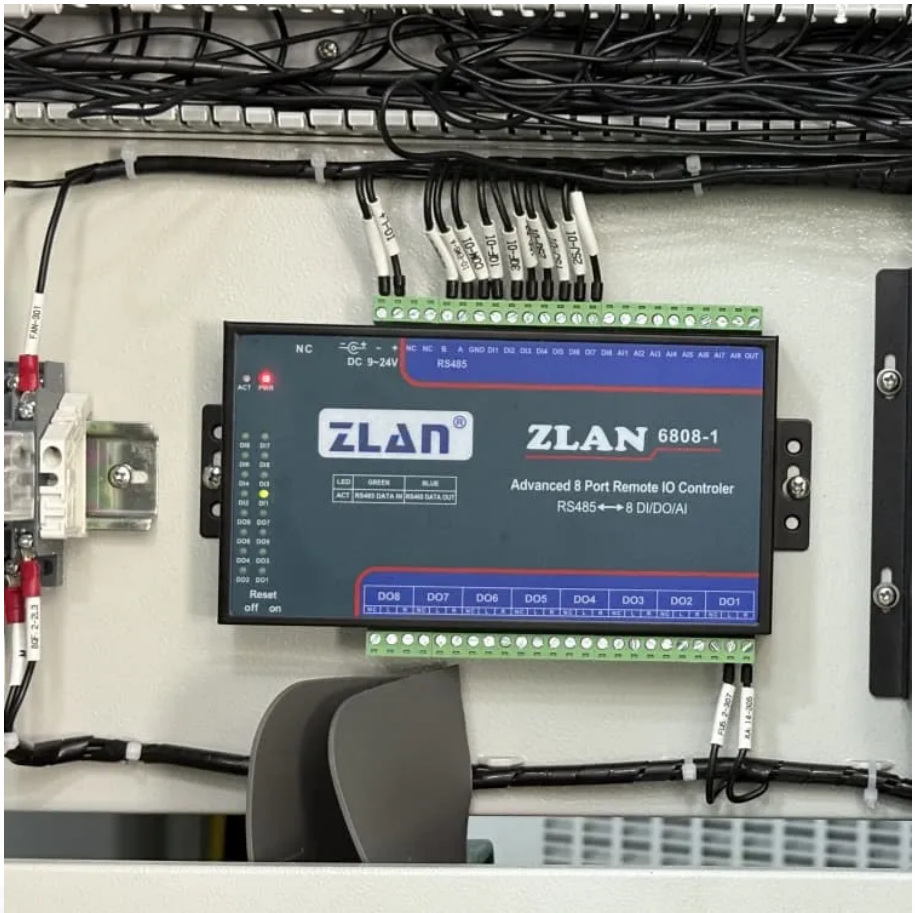
What are the new sodium batteries for energy storage



Overview

On October 14, Alsym announced the launch of its new “Na-Series energy storage battery,” describing it as a “non-flammable, non-toxic, and cost-effective solution to meet the surging demand for power driven by data centers, electrification, and accelerating renewable.

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The latest example comes from the US startup Alsym Energy, which has just launched its a new safety-forward sodium-ion battery into the marketplace, with the aim of accelerating the renewable energy transition. Alsym is one of several sodium-ion battery innovators to pick up the pieces following.

Peak Energy shipped out its first sodium-ion battery energy storage system, and the Burlingame, California-based company says it’s achieved a first in three ways: the US’s first grid-scale sodium-ion battery storage system; the largest sodium-ion phosphate pyrophosphate (NFPP) battery system in the.

Sodium-ion batteries are popping up in electric scooters and grid storage installations. Lithium-ion batteries have some emerging competition: Sodium-based alternatives are starting to make inroads. Sodium is more abundant on Earth than lithium, and batteries that use the material could be cheaper.

Are sodium-ion batteries finally ready to compete with lithium?

Proponents say sodium-ion batteries degrade more slowly, operate more efficiently and have lower fire risk. But high-profile failures cloud the U.S. market. Denver-based Peak Energy powered up what it says is the United States’ first.

Scientists at the University of Surrey discovered that by charging traditional approaches to using nanostructured sodium vanadate hydrate (NVOH), a pre-existing sodium-based material, batteries not only perform better, they can

also desalinate water, presenting a surprising and useful dual.

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Peak Energy announced the launch and shipment of its sodium-ion battery energy storage system (ESS). The solution delivers a patent-pending passive cooling design to ...

Researchers at the University of Surrey have developed a new sodium-ion battery that stores twice the charge of existing models and can also desalinate water, offering a ...

While efforts are still needed to enhance the energy and power density as well as the cycle life of Na-ion batteries to replace Li-ion batteries, these energy storage devices present significant advantages in terms of ...

Sodium-ion batteries have gained significant attention in 2025 as the push for cost-effective and sustainable energy storage solutions intensifies. This innovative battery ...

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New developments in sodium battery materials have led to developments that could pave the way for lower-cost sodium-ion batteries that can compete with lithium-ion batteries for large-scale grid energy ...

Researchers in India have unveiled a sodium-ion battery capable of charging to 80% in just six minutes, shattering the status quo and offering a glimpse into a future where energy storage is faster, cheaper, ...

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Peak Energy debuts the US's first grid-scale sodium-ion battery, cutting costs and boosting reliability with passive cooling tech.

The US startup Alsym Energy is launching its new "salt battery" sodium-ion energy storage formula into the global market.

Researchers in India have unveiled a sodium-ion battery capable of charging to 80% in just six minutes, shattering the status quo and offering a glimpse into a future where ...

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